

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	("20040245912").PN.	US-PGPUB; USPAT	OR	OFF	2005/10/21 22:30
S2	3523	(313/502-504).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/22 13:11
S3	54	(light with emitting with device).ab. and (phosphor and white and (color with rendering with index))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 22:54
S4	37	S3 and @ad<"20040401"	US-PGPUB; USPAT	OR	ON	2005/10/21 23:04
S5	43	((("4,965,485") or ("5,537,000") or ("5,813,753") or ("6,069,440") or ("6,175,187") or ("6,252,915") or ("6,268,041") or ("6,336,837") or ("6,406,803") or ("6,417,019") or ("6,501,091") or ("6,508,573") or ("6,521,915") or ("6,522,065") or ("20030003300") or ("20030042850") or ("20030066998") or ("20020153830") or ("20020167024") or ("3,842.306") or ("4,047,069") or ("4,330,691") or ("4,642,951") or ("4,890,033") or ("4,923,032") or ("4,965,485") or ("5,073,805") or ("5,142,343") or ("5,293,050") or ("5,354,707") or ("5,422,489") or ("5,438,234") or ("5,516,577") or ("5,536,949") or ("5,537,000") or ("5,552,665") or ("5,813,753") or ("5,850,064") or ("5,852,346") or ("5,882,779") or ("5,959,316") or ("5,962,863") or ("5,977,565") or ("5,990,479") or ("6,068,907") or ("6,069,440") or ("6,117,514") or ("6,157,047") or ("6,175,187") or ("US6,207,229B1") or ("US6,215,881B1") or ("US6,245,259B1") or ("US6,251,303B1") or ("US6,252,254B1") or ("US6,252,915B1") or ("US6,268,041B1") or ("US6,322,901B1") or ("US6,336,837B1") or ("US6,389,771B1") or ("US6,397,531B1") or ("US6,406,803B1") or ("US6,417,019B1") or ("US6,423,551B1") or ("US6,441,551B1") or ("US6,501,091B1") or ("US6,501,10282") or ("US6,504,179B1") or ("US6,508,573B1") or ("US6,515,314B1") or ("US6,521,915B2") or ("US6,522,065B1") or ("US6,544,870B2") or ("US6,566,808B1") or ("US6,585,947B1") or ("US6,602,73182") or ("US6,608,330B1") or ("US6,632,69482") or ("US6,649,13882") or ("US6,660,41082") or ("US6,661,029B1") or ("US6,669,158B2") or ("US6,692,51282") or ("US6,692,986B1") or ("US6,698,54382") or ("US6,700,322B1") or ("US6,701.686").PN. or ((US2001/0000612A1) or (US2001/0040232A1) or (US2002/0018632A1) or (US2002/0152704A1) or (US2002/0153830A1) or (US2002/0167024A1) or (US2003/0003300A1) or (US2003/0003614A1) or (US2003/0034486A1) or (US2003/0042850A1) or (US2003/0047816A1) or (US2003/0066998A1) or (US2003/0173541A1) or (US2003/0222572A1) or (US2003/0227249A1) or (US2004/0007169A1) or (US2004/0033345A1)).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/10/31 11:47
S6	37	S4 and (ultraviolet or blue)	US-PGPUB; USPAT	OR	ON	2005/10/21 23:10
S7	27	S6 and wavelength and energy	US-PGPUB; USPAT	OR	ON	2005/10/21 23:10
S8	2	S7 and infrared	US-PGPUB; USPAT	OR	ON	2005/10/21 23:10
S9	0	S7 and nanoparticle	US-PGPUB; USPAT	OR	ON	2005/10/21 23:10
S10	0	S6 and nanoparticle	US-PGPUB; USPAT	OR	ON	2005/10/21 23:10

## EAST Search History

S11	6	S5 and nanoparticle	US-PGPUB; USPAT	OR	ON	2005/10/21 23:11
S12	27	S7 and emission	US-PGPUB; USPAT	OR	ON	2005/10/21 23:11
S13	24	S12 and group	US-PGPUB; USPAT	OR	ON	2005/10/21 23:11
S14	10	S13 and nano\$	US-PGPUB; USPAT	OR	ON	2005/10/21 23:12
S15	2	S8 and S14	US-PGPUB; USPAT	OR	ON	2005/10/21 23:24
S16	1	("20050035708").PN.	US-PGPUB; USPAT	OR	OFF	2005/10/21 23:24
S17	430	(phosphor and white and (color adj rendering)) and @ad<"20040401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/31 12:13
S18	349	(phosphor and white and (color adj rendering)) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/31 12:16
S19	43	((("4,965,485") or ("5,537,000") or ("5,813,753") or ("6, 069,440") or ("6,175,187") or ("6,252,915") or ("6,268, 041") or ("6,336,837") or ("6,406,803") or ("6,417,019") or ("6,501,091") or ("6,508,573") or ("6,521,915") or ("6, 522,065") or ("20030003300") or ("20030042850") or ("20030066998") or ("20020153830") or ("20020167024") or ("3,842.306") or ("4,047,069") or ("4,330,691") or ("4,642,951") or ("4,890,033") or ("4, 923,032") or ("4,965,485") or ("5,073,805") or ("5,142, 343") or ("5,293,050") or ("5,354,707") or ("5,422,489") or ("5,438,234") or ("5,516,577") or ("5,536,949") or ("5, 537,000") or ("5,552,665") or ("5,813,753") or ("5,850, 064") or ("5,852,346") or ("5,882,779") or ("5,959,316") or ("5,962,863") or ("5,977,565") or ("5,990,479") or ("6, 068,907") or ("6,069,440") or ("6,117,514") or ("6,157, 047") or ("6,175,187") or ("US6,207,229B1") or ("US6, 215,881B1") or ("US6,245,259B1") or ("US6,251, 303B1") or ("US6,252,254B1") or ("US6,252,915B1") or ("US6,268,041B1") or ("US6.322,901B1") or ("US6,336, 837B1") or ("US6,389,771B1") or ("US6,397,531B1") or ("US6,406,803B1") or ("US6,417,019B1") or ("US6,423, 551B1") or ("US6,441,551B1") or ("US6,501,091B1") or ("US6,501,10282") or ("US6,504,179B1") or ("US6,508, 573B1") or ("US6.515,314B1") or ("US6,521,915B2") or ("US6,522,065B1") or ("US6,544,870B2") or ("US6,566, 808B1") or ("US6,585,947B1") or ("US6,602,73182") or ("US6.608,330B1") or ("US6,632,69482") or ("US6,649, 13882") or ("US6,660,41082") or ("US6,661,029B1") or ("US6,669,158B2") or ("US6,692,51282") or ("US6,692, 986B1") or ("US6,698,54382") or ("US6,700,322B1") or ("US6,701.686").PN. or ((US2001/0000612A1) or (US2001/0040232A1) or (US2002/0018632A1) or (US2002/0152704A1) or (US2002/0153830A1) or (US2002/0167024A1) or (US2003/0003300A1) or (US2003/0003614A1) or (US2003/0034486A1) or (US2003/0042850A1) or (US2003/0047816A1) or (US2003/0066998A1) or (US2003/0173541A1) or (US2003/0222572A1) or (US2003/0227249A1) or (US2004/0007169A1) or (US2004/0033345A1)):CCLS.	US-PGPUB; USPAT	OR	OFF	2005/10/31 12:16
S20	384	S18 or S19	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/31 19:11

## EAST Search History

S21	1892	phosphor and (wavelength with nm) and (light with energy) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/31 19:30
S22	258	(phosphor same (wavelength with nm) same (light with energy)) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/31 20:23
S23	499	(phosphor same infrared same (light with energy)) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/31 20:59
S24	5	phosphor same (nanoparticle and semiconductor and (silicon or germanium)) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/31 21:03
S25	0	phosphor same (nanoparticle same (group with iv) and (silicon or germanium)) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/31 21:04
S26	0	phosphor same (nanoparticle and (group with iv) and (silicon or germanium)) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/31 21:04
S27	0	phosphor same (nano\$ and (group with iv) and (silicon or germanium)) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/31 21:05
S28	77	phosphor same (nano\$ and (group) and (silicon or germanium)) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/31 21:09
S29	5	S28 and nanoparticle	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/31 21:16
S30	11	phosphor same nanoparticle same (silicon or germanium) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/31 21:19
S31	274	phosphor and nanoparticle and (silicon or germanium) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/31 21:59
S32	33	phosphor and nanoparticle and germanium and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/31 21:55
S33	15	phosphor and nanoparticle and germanium and (light adj emitting) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/31 21:55
S34	11	(phosphor with emission with profile) and (red and green and blue and peak) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/31 22:01
S35	0	(phosphor with emission with profile) same (red and green and blue and peak) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/31 22:01
S36	35	(phosphor with emission with profile) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/31 22:04
S37	12	(phosphor same (emission adj profile)) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/31 22:05
S38	7	(phosphor same (emission adj profile)) and (red and blue and green) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/31 22:59

## EAST Search History

S39	1	"20030057821".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 15:40
S40	3	((("20030067265") or ("20030057821") or ("20030186023")).PN.	US-PGPUB; USPAT	OR	OFF	2005/11/01 16:59
S41	1	S40 and (halogen or incandescent)	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 15:48
S42	5659	infrared same (halogen or incandescent) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 15:49
S43	5659	(infrared same (halogen or incandescent)) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 15:49
S44	3860	(infrared same (halogen or incandescent) same lamp) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 15:49
S45	2327	(infrared with (halogen or incandescent) with lamp) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 16:40
S46	74	(light with emitting) and (core with shell with nanoparticle) and inorganic and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 16:42
S47	0	((light with emitting) same phosphor) and (core with shell with nanoparticle) and inorganic and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 16:43
S48	4	((light with emitting) and phosphor) and (core with shell with nanoparticle) and inorganic and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 16:51
S49	1	S48 and silicon	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 16:54
S50	2	S48 and si	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 16:54
S51	0	S40 and electroluminescent	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 16:59
S52	3	S40 and organic	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 18:37
S53	7100	(257/102-103,79-103.ccls. or 313/502-504.ccls.) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 18:38
S54	5055	S53 and semiconductor	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 18:38
S55	80	S54 and core and (shell or coat\$3 or film or layer or encapsulat\$3) and inorganic	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 18:39
S56	35	S55 and (nano\$particle or particle or granule or grain or granulate or aggregation)	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 18:40
S57	11	S56 and phosphor	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 18:47

## EAST Search History

S58	26	(semiconductor with core) and nanoparticle and phosphor and inorganic	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 18:48
S59	13	S58 and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 18:49
S60	8	S59 and (light with emitting)	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 18:49
S61	26	(semiconductor with core) and nanoparticle and phosphor and inorganic	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 20:58
S62	23	(semiconductor with core) and (nano\$particle or particle or granule or grain or granulate or aggregation) and phosphor and inorganic and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 21:20
S63	13742	((si or silicon) same (ge or germanium)) and (particle or nanoparticle) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 21:21
S64	1935	((si or silicon) same (ge or germanium)) same (particle or nanoparticle) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 21:21
S65	360	S64 and (light with emitting)	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 21:22
S66	105	S65 and core	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 21:45
S67	22	(light with emitting) and (nanoparticle with binder) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 21:46
S68	21	(light with emitting) and (nanoparticle with binder) and (binder same polymer) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 22:20
S69	8	(light with emitting) and (nanoparticle with binder) and (binder same (electroluminescen\$3 with polymer)) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 22:21
S70	11	(US-20050206301-\$ or US-20040000862-\$ or US-20030189829-\$ or US-20030067265-\$ or US-20040145307-\$ or US-20030186023-\$ or US-20030057821-\$ or US-20030227249-\$ or US-20040109666-\$ or US-20040150268-\$ or US-20040036130-\$).did.	US-PGPUB	OR	ON	2005/11/01 22:57
S71	5	S70 and binder	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 22:27
S72	1	S70 and electroluminescent	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 22:29
S73	3	S70 and (el or electroluminescen\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 22:30
S74	409	(light adj emitting) same phosphor same electroluminescen\$3 and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 22:36

## EAST Search History

S75	16	(light adj emitting) same phosphor same organic and nanoparticle and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 22:41
S76	0	phosphor and ((semiconductor with nanoparticle) same polydisperse same binder) and @ad<"20030401"	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 22:42
S77	1	"20040027062".pn.	US-PGPUB	OR	ON	2005/11/01 23:01
S78	62	phosphor same electroluminescen\$3 same (material or particle or layer) same binder	US-PGPUB	OR	ON	2005/11/01 23:02
S79	38	S78 and @ad<"20030401"	US-PGPUB	OR	ON	2005/11/01 23:08
S80	23	phosphor and (binder same (electroluminescen\$3 with polymer)) and @ad<"20030401"	US-PGPUB	OR	ON	2005/11/01 23:20
S81	3	phosphor and (organic with film) and (semiconductor same mono\$disperse) and @ad<"20030401"	US-PGPUB	OR	ON	2005/11/01 23:31
S82	2	S81 and (film with nano\$)	US-PGPUB	OR	ON	2005/11/02 00:41
S83	3	((("20030067265") or ("20030057821") or ("20040145307")).PN.	US-PGPUB; USPAT	OR	OFF	2005/11/02 00:42
S84	2	S83 and fluorescent	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/02 00:42
S85	1	"20040036130"	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/28 13:39
S86	1	"20030067265"	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/28 13:42
S87	2	"6918946"	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/28 16:39
S88	1	(phosphor and domain and organic and (nanoparticle nanostructure) and monodisperse).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/28 15:49
S89	12	(phosphor and domain and organic and (nanoparticle nanostructure) and monodisperse)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/28 15:55
S90	4	(phosphor and domain and (organic adj (layer film substrate)) and (nanoparticle nanostructure) and monodisperse)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/28 16:05
S92	10	(phosphor and ((nanoparticle nanostructure) same monodisperse))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/28 16:14

## EAST Search History

S93	9	(phosphor and ((nanoparticle nanostructure) same monodisperse) and organic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/28 16:16
S94	2	"20040023010"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/28 16:16
S95	1	"20050266697".pn. and (dop\$3 with impurities)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/28 18:18
S96	5	phosphor and (nanoparticle nanocrystal nanostructure) and ((shell coat\$3 overcoat) with (sic "si.sub.3n.sub.4"))	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/28 18:21
S97	8	(nanoparticle nanocrystal nanostructure) and ((si silicon) with core) and ((shell coat\$3 overcoat) with (sic "si.sub.3n.sub.4"))	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/28 18:36
S98	7	S97 not S96	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/28 18:22
S99	401	(nanoparticle nanocrystal nanostructure) and (dop\$3 with impurities)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/28 18:37
S100	32	phosphor and (nanoparticle nanocrystal nanostructure) and (dop\$3 with impurities)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/28 18:37
S101	24	phosphor and (nanoparticle nanocrystal nanostructure) and (dop\$3 with impurities) and ((group adj IV) silicon si germanium ge)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/28 18:53
S102	1	"20040105980"	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/28 18:53
S103	1	"20040023010"	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/22 10:58
S104	4456	(313/502-504).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/22 13:11
S105	9	S104 and ((nanoparticle nanosubstance nanostructure) with (silicon si ge germanum))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/05/25 22:57
S107	2652	((nanoparticle nanosubstance nanostructure) with (silicon si ge germanum))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/05/25 23:00

## EAST Search History

S108	1728	S107 and light	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/05/25 23:00
S109	164	S108 and phosphor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/05/25 23:00
S110	58	S109 and @ad<"20030401"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/05/25 23:01



## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	9	((light with emitting with device) and (phosphor and white and nanoparticle)).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/25 23:22
S2	1	(phosphor and organic and monodisperse).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/25 23:22

*interference search*

*5/25/07.*

